

D1 = DE 198 40 303 A1

D1 describes high speed vehicles which are provided with a pocking structure on their surface for generating micro turbulences. The pocking preferably is provided by means of depressions having semi-circular or oval form with a diameter of about 1 mm and a depth of about 0.3 mm, wherein 2-3 depressions are provided per cm².

It is further described in D1 that for surface areas with predominantly turbulent flow conditions depressions in higher number and greater depth are provided than for surface areas

with predominantly laminar flow conditions. Furthermore, a preferred embodiment is described in D1 in which the pocking structure is provided within a self-adhesive film that is adhered to the outer skin of the vehicle.

However, different from the present application the depressions as described in D1 are provided with a sharp edge with respect to the rest of the surface, as can be seen in Fig. 1 of D1. Furthermore, D1 gives no hint to the described pocking structure being capable of generating tornado-like vortices within a flowing medium.